Interactive comment on "Weather and Climate Science in the Digital Era" *by* Martine G. de Vos et al.

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General comments:

This paper is indeed interesting and awakening. This statement from the paper does have quite an impact. "As can already be observed from the studies presented in the conference it leads to much faster progress in understanding the world."

Thanks for your contributions.

Specific comments:

Throughout this review P<N>, L<N> represents the page number and line number respectively.

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[Discussion paper]

P2, L 45. There is a line that talks about the "third development". The construction of this paragraph could be slightly modified to explicitly present the three developments, for a better flow.

P3, L 63. Section 2, Consider eliminating too many "and" conjunctions.

P4, L 94-96. Examples or relevant references cited will improve the effectiveness of this statement.

P4, L 106 onwards. Some parts in 3.1 Open Data seem to fall under 3.2 Open software. But, this could also mean they are very coupled. No changes necessarily needed here.

P5, L 118. While interpreting , "Making data and software findable..", software may include tools that lead to the data. I think some level of paraphrasing may be required in this paragraph to make the message from the paper more evident, about making all the components adhere to FAIR goal as a whole.

P5, L 126. This paragraph does provide good insights. But, the final message is not translated well enough as to how this affects open data/science.

P5, L 131. Just a note- Removing the need for post-processing by incorporating as many steps as possible within the model itself can make the model computationally even more expensive. Thus, when there is a use-case to share model source code, one may still find it challenging, though open. Though there is one helpful cloud computation reference cited, I would have expected to see more bits about cloud computing in this paper, in this particular section.

P6, L 161. Punctuation. Add comma after conference.

P6, L 178 The message/action item here seems to have not translated well here. It does sound contradictory, but the essence of the message might be lost, regarding the technical challenges and reduced scope for multi-discipline collaboration. Please paraphrase this to improve the paragraph.

Interactive comment

P7, L 194 Punctuation. Replace "here" with "there.

P7, L 216 This statement is well put in terms of sharing knowledge. I hope this can be reflected more in the paper.

Interactive comment on Geosci. Commun. Discuss., https://doi.org/10.5194/gc-2019-22, 2019.